

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	0	(rate\$3 near2 chang\$5) near5 (speed\$5 (distance\$3 adj3 time\$3)) with (schedul\$5) with (wireless cellular handheld pda palmtop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:12
L5	2	((rate\$3 near2 chang\$5) near5 (speed\$5 (distance\$3 adj3 time\$3)) with schedul\$5) and (wireless cellular handheld pda palmtop)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:13
L6	60898	(determin\$5 detect\$5 monitor\$4) with (speed\$5 (distance near time\$3)) with chang\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:14
L7	1276	(determin\$5 detect\$5 monitor\$4) with (speed\$5 (distance near time\$3)) with chang\$5 with (activit\$5 action schedul\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:32
L8	680	7 and @ad<"20010503"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:33
L9	3252	(455/456.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:30
L10	0	8 and 9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:31
L11	1	8 and "455"/\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:31

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L12	239	(determin\$5 detect\$5 monitor\$4) with (speed\$5 (distance near time\$3)) with chang\$5 with ((predifin\$5 adj3 (activit\$5 action)) schedul\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:35
L13	141	12 and @ad<"20010503"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:36
L14	1032	(speed\$5 (distance near time\$3)) with chang\$5 with ((predifin\$5 adj3 (activit\$5 action)) schedul\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:35
L15	6703	(709/224).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:36
L16	8021	(709/203).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:35
L17	1	14 and 16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:35
L18	607	14 and @ad<"20010503"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:36
L19	9	18 and "455"/\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:38

EAST Search History

L20	11	18 and "709"/\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:36
L21	2	"7248872"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:41
L22	2	"7085818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:57
L23	2	("20020165910").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:57
L25	2	"20020165910"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 10:07
S1	4	(("6732080") or ("6847824")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:13
S2	2	("20020165910").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 08:57
S3	2	("6873851").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/16 10:20

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	"20040166879"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 10:30
L2	21	"6716101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 10:30
L4	3	"6873851"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 10:39

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"determine" "predefined activity" "gps"

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Results 1 - 10 of about 41 for **"determine" "predefined activity" "gps** (0.20 seconds)

Method, system, and program for providing user location ...

For instance, if the locator 14 comprises a **GPS** receiver, then the locator 14 **determine** a **predefined activity** associated with the position records. ...

www.freepatentsonline.com/20020165910.html - 86k - [Cached](#) - [Similar pages](#)

Method, system, and program for providing user location ...

The locator 14 may comprise a global position satellite (**GPS**) receiver that is **determine** a **predefined activity** associated with the position records. ...

www.patentstorm.us/patents/6873851-description.html - 79k - [Cached](#) - [Similar pages](#)

Newport Global Technologies, Inc.

Any change of status from a **predefined activity** level is immediately relayed to the IMC, where the data is interpreted to **determine** whether a threat exists, ...

newportglobaltechnologies.com/servicesolutions.html - 12k - [Cached](#) - [Similar pages](#)

[PDF] CORRELATION SYSTEMS

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models, from heterogeneous sensors, to **determine** the exist- ... Control, **GPS** devices, movement detectors or cellular network ...

www.correlation-systems.com/Attachments/Access%20Control%20Solutions%20Brochure%20V1.0.pdf - [Similar pages](#)

[doc] %!PS-Adobe-3.0

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PROACT comes with roughly 20000 **predefined activity** definitions including Our activity inference engine builds primarily on work on robot **GPS** location ...

www.perkowitz.net/research/papers/proact_intel.doc - [Similar pages](#)

GVU/Events/Convocation and RRD 2004 Demos

Learning Variations of a Single **Predefined-activity** ... but instead a graph cut technique is used to **determine** the optimal patch region for any given offset ...

www-static.cc.gatech.edu/gvu/events/special/convocation032504/demos.html - 140k - [Cached](#) - [Similar pages](#)

[PDF] The Probabilistic Activity Toolkit: Towards Enabling Activity ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

comes with roughly 20000 **predefined activity** definitions. including "cleaning a bathtub" and ... that can **determine** the objects that are touched. Both ...

luci.ics.uci.edu/websiteContent/weAreLuci/biographies/faculty/djp3/LocalCopy/irs_tr_03_013.pdf - [Similar pages](#)

Suunto Discussions: EPOC Explanation

I have a laboratory calculated VO₂ max, which I used to **determine** my personal METS ...

They only seem to change if you select one of the **predefined Activity** ...

www.suuntosports.com/discussions/forum_posts.asp?TID=35 - 48k -

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[PDF] Tracing the planning and execution of activities and their ...

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38 **predefined activity** subcategories were reasonably sufficient. display and match the **GPS** data to relevant scheduling decisions. ...

www.ivt.baug.ethz.ch/allgemein/pdf/rindsfueser.pdf - [Similar pages](#)

[PDF] **Real-time Travel Data Collection System**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

predefined activity type list. Various activity category demarcation button 6 then

launches ARCPAD and activates its **GPS** tracking functions to start ...

www.geog.ucsb.edu/academics/dissertations/dissertations/Zhou_PHDDissertation.pdf -

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Results 1 - 1 of 1 for "determine" "predefined activity" "speed of movement". (0.22 seconds)

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[PDF] [Topic #6 "Deriving Parameters of Mobility Models from Real-World ...](#)

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type and the **predefined activity** purposes in the evaluation area. The **speed of movement** is chosen from the overall speed distribution. Once a user has ...

www.ipv.uni-stuttgart.de/.../lehrveranstaltungen/seminare/SS06/Seminar.ATDS_termine/dateien/Report_8.pdf - [Similar pages](#)

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[Google](#)[Advanced Search Preferences](#)[Web](#)Results 1 - 10 of about 459 for **"user location" "speed of movement"**. (0.27 seconds)

User interface device - Patent 6061050

user location/movement detecting means for detecting user location or both user location and user speed of movement relative to the control surface region, ...
www.freepatentsonline.com/6061050.html - 38k - [Cached](#) - [Similar pages](#)

System and method for monitoring the location of individuals via ...

... an authorized user can find a cellular telephone **user's location** within a range of As can be seen, the system provides the **speed of movement** of the ...
www.freepatentsonline.com/6716101.html - 51k - [Cached](#) - [Similar pages](#)
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System and method for providing personalized storm warnings - US ...

... (d) generating a personalized storm warning for the **user location** of ... on direction and **speed of movement** information for the storm cell contained in ...
www.patentstorm.us/patents/7139664-claims.html - 23k - [Cached](#) - [Similar pages](#)

User interface device - US Patent 6061050

The **user location/movement detecting means** preferably includes means for 22 to determine the position and **speed of movement** of the user's finger or ...
www.patentstorm.us/patents/6061050-description.html - 31k - [Cached](#) - [Similar pages](#)
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ACM: Digital Library: Communications of the ACM

Utilizing **user location** as a key determinant of information requirement needs. the supply chain (real-time location, **speed of movement**, bottlenecks). ...
delivery.acm.org/10.1145/960000/953490/p61-rao.html?
[key1=953490&key2=7747759411&coll=GUIDE&dl... - Similar pages](#)

A Context-Aware Hoarding Mechanism for Location-Dependent ...

In contrast to our approach the **user's location** is not considered there. ... a user's future location and/or **speed of movement** for the hoarding decision. ...
www.informatik.uni-stuttgart.de/.../NCCTRL/makehtml-ncctrl.cgi?document=TR-2000-06&format=0&page=11 - 23k - [Cached](#) - [Similar pages](#)

A Study of Bluetooth Propagation Using Accurate Indoor Location ...

By varying the **speed of movement** during collection, we as WiFi or GPS to infer **user location**. Our work complements this by performing ...
www.springerlink.com/index/2FGWHFACYGC011HY.pdf - [Similar pages](#)

A Comparative Study of Tracking Strategies Using Directional ...

size mean a high **speed of movement**, or, at the **Mobile User Location** Update and. Paging Under Delay Constraints, Wireless Networks. Vol. 1, No. 4, Dec. ...
ieeexplore.ieee.org/iel3/4928/13618/00627035.pdf - [Similar pages](#)

VOLUTION

TILIZING USER LOCATION AS A. KEY DETERMINANT OF INFORMATION.
REQUIREMENT NEEDS **speed of movement**, bottlenecks). Second, the connec- ...
portal.acm.org/ft_gateway.cfm?id=953490&type=pdf&dl=GUIDE&id=ACM - [Similar pages](#)

[PPT] Slide 1

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... type of neighborhood, **speed of movement**, places visited before and after, etc. ... Raw GPS reading (observed); Actual **user location**; Activities (time ...

<http://www.google.com/search?hl=en&q=%22user+location%22+%22speed+of+move...>

10/18/2007

"user location" "speed of movement" – Google Search

www.cs.rochester.edu/u/kautz/talks/KautzBCSdinner.ppt - [Similar pages](#)

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System and method for monitoring the location of individuals via ...

As can be seen, the system provides the **speed of movement** of the **wireless device** carried by Brian and the direction of travel. Depending upon the amount of ...
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Mobile device and method for determining location of mobile device ...

A mobile device, for determining location in a **wireless** network, includes a motion detector ... Other sensors which can **detect movement** could also be used. ...
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ScienceDirect - Future Generation Computer Systems : Improving ...

To do this, it periodically monitors the current **user location**, ... it would be very reasonable to set the distance higher than that of low **speed movement** ...
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Mobile Anchor-Free Localization for Wireless Sensor Networks

algorithm, we make use of accelerometers installed in standard nodes to **detect** their **movement**. An accelerometer is a **device** that measures its own ...
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Wireless Local Area Network Positioning

The device shown in the figure is able to **detect** signals from all possible to track the **movement** and location of a **wireless device**. This being the ...
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Location Management in Wireless Data Networks

This procedure allows the main system to keep track of a **user's location** so Reducing the time taken by a Bluetooth **device** to **detect** other Bluetooth ...
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Methods for employing location information associated with ...

If more than two **RDF devices** detect the radio signal, the location processor will determine ... 2 depicts a **RDF device** installed on a **wireless antenna**. ...
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Small-scale compensation for WLAN location determination systems ...

detect small-scale variations and then perturbs the signal strength ... With the current increase in mobile **devices** and **wireless** ...

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Method, system, and program for providing user location ...

A method for providing **user location** information for a personal information determine a **predefined activity** associated with the position records. ...

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Method, system, and program for providing user location ...

A method for providing **user location** information for a personal information ... of position coordinates indicates a **predefined activity** occurring during an ...

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Method, system, and program for providing user location ...

A **user location** record 56 can only be considered for the particular user that determine a **predefined activity** associated with the position records. ...

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Method, system, and program for providing user location ...

A method for providing **user location** information for a personal information management program, comprising: providing a plurality of user records for a user ...

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Method, system, and program for providing information on proximate ...

[0002] "Method, System, and Program for Providing **User Location** Information with a Personal Information Management Program", having US patent application ...

www.patentmonkey.com/PM/applicationid/20030061303.aspx - 205k -

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Method, system, and program for providing information on users of ...

A **user location** record 56 can only be considered for the particular user that ... The user access level 90 may specify that the **user location** record 68 be ...

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Localization of activity with respect to digital data invention

... context of a digital data activity application, the **predefined activity** markers including selection and activity controls, and associated parameters, ...

www.freshpatents.com/Localization-of-activity-with-respect-to-digital-data-dt20060309ptan20060053374.php?... - 116k - [Cached](#) - [Similar pages](#)

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Published before May 2001

Terms used: user location speed activity

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Relevance scale

1 [The audio notebook: paper and pen interaction with structured speech](#)

Lisa Stifelman, Barry Arons, Chris Schmandt

 March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '01**

Publisher: ACM Press

Full text available: [pdf\(282.15 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper addresses the problem that a listener experiences when attempting to capture information presented during a lecture, meeting, or interview. Listeners must divide their attention between the talker and their notetaking activity. We propose a new device—the Audio Notebook—for taking notes and interacting with a speech recording. The Audio Notebook is a combination of a digital audio recorder and paper notebook, all in one device. Audio recordings are structured using two techniques ...

Keywords: acoustic structuring, audio, paper, pen interaction, speech, speech as data, speech interfaces, user structuring

2 [Transmission policies and traffic management in multimedia wireless networks](#)

Anthony Burrell, Harold P. Stern, P. Papantoni-Kazakos

 May 1997 **Wireless Networks**, Volume 3 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(358.34 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider multimedia wireless networks in environments where traffic characterizations and traffic rates are generally time-varying. For such networks we propose a CDMA transmission policy, in conjunction with a moving boundaries concept induced by a traffic monitoring high-level protocol. The proposed transmission/traffic management technique is analyzed and numerically evaluated.

3 [Charting past, present, and future research in ubiquitous computing](#)

Gregory D. Abowd, Elizabeth D. Mynatt

 March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: [pdf\(730.83 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The proliferation of computing into the physical world promises more than the ubiquitous availability of computing infrastructure; it suggest new paradigms of interaction inspired

by constant access to information and computational capabilities. For the past decade, application-driven research on ubiquitous computing (ubicomp) has pushed three interaction themes:natural interfaces, context-aware applications, and automated capture and access. To chart a course ...

Keywords: augmented reality, capture and access, context-aware applications, evaluation, everyday computing, natural interfaces, social implications, ubiquitous computing, user interfaces

4 WAP traffic: description and comparison to WWW traffic

Thomas Kunz, Thomas Barry, James P. Black, Hugh M. Mahoney

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**

Publisher: ACM Press

Full text available:  pdf(818.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The characteristics of the data traffic generated by the use of micro-browser-enabled PCS phones to gain access to the Web is of particular interest to cellular network operators.

Questions such as the frequency and length of browser sessions, and the specific characteristic of the traffic generated, need to be answered by researchers. These answers are valuable in network capacity planning as more subscribers use their cellular phones to interact with the Web.

5 Sending messages to mobile users in disconnected ad-hoc wireless networks

Qun Li, Daniela Rus

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available:  pdf(1.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An ad-hoc network is formed by a group of mobile hosts upon a wireless network interface. Previous research in this area has concentrated on routing algorithms which are designed for fully connected networks. The usual way to deal with a disconnected ad-hoc network is to let the mobile computer wait for network reconnection passively, which may lead to unacceptable transmission delays. In this paper, we propose an approach that guarantees message transmission in minimal time. In this approach ...

6 An exploratory evaluation of three interfaces for browsing large hierarchical tables of contents

Richard Chimera, Ben Shneiderman

October 1994 **ACM Transactions on Information Systems (TOIS)**, Volume 12 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.69 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Three different interfaces were used to browse a large (1296 items) table of contents. A fully expanded stable interface, expand/contract interface, and multipane interface were studied in a between-groups experiment with 41 novice participants. Nine timed fact retrieval tasks were performed; each task is analyzed and discussed separately. We found that both the expand/contract and multipane interfaces produced significantly faster times than the stable interface for many tasks using this ...

Keywords: browsing, hierarchies, table of contents, user interfaces

7 Database and location management schemes for mobile communications

Anna Hać, Bo Liu

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Publisher: IEEE Press

Full text available: [pdf\(264.51 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: GSM, broadcast, cost, mobility management, partition, routing, switching

8 Talking in circles: designing a spatially-grounded audioconferencing environment

 Roy Rodenstein, Judith S. Donath

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '00**

Publisher: ACM Press

Full text available: [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents *Talking in Circles*, a multimodal audioconferencing environment whose novel design emphasizes spatial grounding with the aim of supporting naturalistic group interaction behaviors. Participants communicate primarily by speech and are represented as colored circles in a two-dimensional space. Behaviors such as subgroup conversations and social navigation are supported through circle mobility as mediated by the environment and the crowd and distance-based attenuation o ...

Keywords: audio, computer-mediated communication, drawing, gesture, interaction design, media space, multicast, multimodal interfaces, representation, social navigation, speech

9 Automatic personalization based on Web usage mining

 Bamshad Mobasher, Robert Cooley, Jaideep Srivastava

August 2000 **Communications of the ACM**, Volume 43 Issue 8

Publisher: ACM Press

Full text available: [pdf\(2.62 MB\)](#)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[html\(49.24 KB\)](#)

10 Analyzing and communicating usability data: now that you have the data what do you

 do? a CHI'94 workshop

Nandini P. Nayak, Debbie Mrazek, David R. Smith

January 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 1

Publisher: ACM Press

Full text available: [pdf\(999.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

At the CHI '94 Workshop: "Analyzing and Communicating Usability Data", usability researchers and practitioners gathered to discuss how usability data should be collected, analyzed, and communicated to help ensure the design and development of usable products. This workshop was motivated by the challenges CHI practitioners have encountered in analyzing and communicating data despite the widespread availability of a variety of usability tools. Workshop activities included brief presentations, smal ...

11 A real-time expert system for computer network monitor and control

 Barton B. Dunning, John Switlik

August 1988 **ACM SIGMIS Database**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: [pdf\(385.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

SEMACS is a continuous, real-time expert monitor and control system that actively and passively monitors a computer network. It detects and diagnoses hardware and software problems with the network and provides advice and solutions to an operator in his domain of influence. It was developed jointly by Sperry and one of its customers during an Expert

Systems Apprenticeship with the Sperry Knowledge Systems Center. The prototype system, which includes all major components of the final, operational ...

12 In recognition of the 25th anniversary of Computing Reviews: selected reviews 1960– 

 **1984**

Jean E. Sammet, Robert W. Rector
January 1985 **Communications of the ACM**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.05 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

13 A call admission and control scheme for quality-of-service (QoS) provisioning in next generation wireless networks 

S. K. Das, R. Jayaram, N. K. Kakani, Sanjoy K. Sen
January 2000 **Wireless Networks**, Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(201.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a framework for quality-‐of-‐service &ipar;QoS) provisioning for multimedia services in next generation wireless access networks. This framework aims at providing a differentiated treatment to multimedia traffic flows at the link layer, which can be broadly classified as real-‐time &ipar;or delay-‐sensitive) and non-‐real-‐time &ipar;or delay-‐tolerant). Various novel schemes are proposed to support the differential treatment and guarant ...

14 The computer science research network CSNET: a history and status report 

 Douglas Comer
October 1983 **Communications of the ACM**, Volume 26 Issue 10

Publisher: ACM Press

Full text available:  pdf(783.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In 1981, the National Science Foundation started a five-year project totaling nearly \$5 million to construct a computer science research network, CSNET, connecting all groups engaged in computer science research. For an NSF division with an annual budget of \$25 million, the award represents an unusual commitment to a single project; only a handful of such large awards have been made. What is CSNET? Why is it receiving such attention? How will it benefit the community? When will it b ...

Keywords: CSNET, TCP/IP

15 Analysis of a local-area wireless network 

 Diane Tang, Mary Baker
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available:  pdf(1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To understand better how users take advantage of wireless networks, we examine a twelve-week trace of a building-wide local-area wireless network. We analyze the network for overall user behavior (when and how intensively people use the network and how much they move around), overall network traffic and load characteristics (observed throughput and symmetry of incoming and outgoing traffic), and traffic characteristics from a user point of view (observed mix of applications and number of ho ...

Keywords: local-area wireless networks, network analysis

16 A model for recentralization of computing: (distributed processing comes home) Harold LorinMarch 1990 **ACM SIGARCH Computer Architecture News**, Volume 18 Issue 1**Publisher:** ACM PressFull text available:  pdf(1.38 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Distributed systems commonly contain heterogeneity at all levels of systems structure, differentiated by function (special servers), operating systems and architecture within a single system. On the other hand, large mainframes tend to be more homogeneous in their structures, even when they are multiprocessors. This paper explores a way of using the models of heterogeneous distributed computing within a mainframe. The argument is that appropriate restructuring of the mainframe can achieve a conv ...

17 Centralized versus decentralized computing: organizational considerations and **management options**

John Leslie King

December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4**Publisher:** ACM PressFull text available:  pdf(3.09 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18 Layered transmission and caching for the multicast session directory service** Andrew Swan, Steven McCanne, Lawrence A. RoweSeptember 1998 **Proceedings of the sixth ACM international conference on Multimedia**
MULTIMEDIA '98**Publisher:** ACM PressFull text available:  pdf(1.32 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**19 Modeling and evaluation of prefetching policies for context-aware information** **services**

Vittoria de Nitto Personè, Vincenzo Grassi, Antonio Morlupi

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '98****Publisher:** ACM PressFull text available:  pdf(1.08 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: context-aware information service, mobile computing, prefetching, wireless network

20 The Cricket location-support system Nissanka B. Priyantha, Anit Chakraborty, Hari BalakrishnanAugust 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00****Publisher:** ACM PressFull text available:  pdf(1.22 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents the design, implementation, and evaluation of Cricket, a location-support system for in-building, mobile, location-dependent applications. It allows applications running on mobile and static nodes to learn their physical location by using listeners that hear and analyze information from beacons spread throughout the building. Cricket is the result of several design goals, including user privacy, decentralized administrat ...

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1 [Some social implications of ubiquitous wireless networks](#)



Marc A. Smith

April 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4

Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Wireless computer networks and the devices to communicate with them are about to become ubiquitous. A profusion of devices is likely to emerge quickly in specialized form factors, from handhelds to cheap, disposable sensors. Groups of people using these tools will gain new forms of social power, ways to organize and coordinate their interactions and exchanges just in time and just in place. Using these tools, people will be able to collectively construct a range of resources that were too difficult ...

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1 Special issue on knowledge representation

 Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

 Full text available: pdf(13.13 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

2 Charting past, present, and future research in ubiquitous computing

 Gregory D. Abowd, Elizabeth D. Mynatt
March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Publisher: ACM Press

 Full text available: pdf(730.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The proliferation of computing into the physical world promises more than the ubiquitous availability of computing infrastructure; it suggests new paradigms of interaction inspired by constant access to information and computational capabilities. For the past decade, application-driven research on ubiquitous computing (ubicomp) has pushed three interaction themes: natural interfaces, context-aware applications, and automated capture and access. To chart a course ...

Keywords: augmented reality, capture and access, context-aware applications, evaluation, everyday computing, natural interfaces, social implications, ubiquitous computing, user interfaces

3 Design and technology for Collaborage: collaborative collages of information on physical walls

 Thomas P. Moran, Eric Saund, William Van Melle, Anuj U. Gujar, Kenneth P. Fishkin, Beverly L. Harrison
November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology UIST '99**
Publisher: ACM Press

 Full text available: pdf(1.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)


terms

A Collaborage is a collaborative collage of physically represented information on a surface that is connected with electronic information, such as a physical In/Out board connected to a people-locator database. The physical surface (board) contains items that are tracked by camera and computer vision technology. Events on the board trigger electronic services. This paper motivates this concept, presents three different applications, describes the system architecture and com ...

Keywords: collaboration, physical-virtual, roomware, tangible UI

4 Ensuring privacy in presence awareness: an automated verification approach

 Patrice Godefroid, James D. Herbsleb, Lalita Jategaonkar Jagadeesany, Du Li
December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work CSCW '00**

Publisher: ACM Press

Full text available:  pdf(151.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Providing information about other users and their activites is a central function of many collaborative applications. The data that provide this "presence awareness" are usually automatically generated and highly dynamic. For example, services such as AOL Instant Messenger allow users to observe the status of one another and to initiate and participate in chat sessions. As such services become more powerful, privacy and security issues regarding access to sensitive user data become critical ...

Keywords: computer-supported cooperative work, coordination, presence awareness, privacy, security, verification

5 Energy estimation tools for the Palm

 Todd L. Cignetti, Kirill Komarov, Carla Schlatter Ellis
August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**

Publisher: ACM Press

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Reducing the energy consumed in the use of mobile and wireless devices is becoming a major design challenge. While the problem obviously must be addressed with improved low-level technology, we have advocated also considering a higher-level view in which energy management becomes an explicit design goal of the software developer who can be more aware of the needs of applications. In support of this objective, new programming models, measurement tools, and simulation environments mus ...

6 A hierarchical fair service curve algorithm for link-sharing, real-time, and priority services

Ion Stoica, Hui Zhang, T. S. Eugene Ng
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Publisher: IEEE Press

Full text available:  pdf(278.75 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: fairness, link-sharing, packet scheduling, quality of service (QoS), real-time

7 A hierarchical fair service curve algorithm for link-sharing, real-time and priority services

Ion Stoica, Hui Zhang, T. S. Eugene Ng

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.35 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we study hierarchical resource management models and algorithms that support both link-sharing and guaranteed real-time services with decoupled delay (priority) and bandwidth allocation. We extend the service curve based QoS model, which defines both delay and bandwidth requirements of a class, to include fairness, which is important for the integration of real-time and hierarchical link-sharing services. The resulting *Fair Service Curve link-sharing* model formalizes the go ...

8 The world through the computer: computer augmented interaction with real world environments 



Jun Rekimoto, Katashi Nagao

December 1995 **Proceedings of the 8th annual ACM symposium on User interface and software technology UIST '95**

Publisher: ACM Press

Full text available:  pdf(1.12 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: augmented reality, barcode, computer augmented environments, palmtop computers, ubiquitous computing, user-Interface software and technology

9 The distributed object environment: support for a distributed object-based system 



Steven Glicker, Gail Whitehead, Eric Evans

April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's SAC '92**

Publisher: ACM Press

Full text available:  pdf(759.61 KB)

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1 [Charting past, present, and future research in ubiquitous computing](#)

Gregory D. Abowd, Elizabeth D. Mynatt
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